

## **ABSTRACT**

Three-dimensional display apparatus and methods are disclosed. The apparatus and methods generate three-dimensional images for an observer by providing components of the image in a series of frames to an image space. Providing the image components can include:

5 scanning an image of a light shaping element over an image space wherein each of a plurality of zones of the light shaping element is projected to each of a plurality of zones of the image space; and, selectively illuminating portions of the light shaping element zones during each of several frames during the scan, wherein each light-shaping element zone scatters the illumination and at least a portion of the scattered illumination provides a component of the

10 three-dimensional image in the image space.

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